

TREATY

REC'D 2 3 NOV 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Articl	e 36 and Rule 70)					
Applicant's or agent's file reference						
IEC040029PCT FOR FURTHER	ACTION	See Form PCT/IPEA/416				
International application No. International filing of	late (day/month/year)	Priority date (day/month/year)				
PCT/CN2004/000728 02.Jul. 20	004 (02.07.04)	03.Jul. 2003 (03.07.03)				
International Patent Classification (IPC) or national classification	and IPC	05.541. 2003 (03.07.03)				
IPC ⁷ C07H 17/07, A61K 31/7048, A61P 9/10, A61P 3/10). A61P 25/32					
	-,-1011 25/32					
Applicant						
INSTITUTE OF RADIATION MEDICINE, ACAD						
INSTITUTE OF RADIATION MEDICINE, ACAD 1. This report is the interest in the sixty of the sixty	EMI OF MILITARY M	EDICAL SCIENCES, PLA ET AL.				
1. This report is the international preliminary examination report under Article 35 and transmitted to the applicant according	ort, established by this In	ternational Preliminary Examining Authority				
2. This PEDODT consists of the second	to 7 th there 50.					
	sheets, including	this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and to the International Bure	au) a total of	sheets on follows.				
sheets of the description, claims and/or drawing	age which have been and	sheets, as follows: ended and are the basis of this report and/or				
sheets containing rectifications authorized by Instructions).	this Authority (see Rule	70.16 and Section 607 of the Administrative				
sheets which supersede earlier sheets, but whithe disclosure in the international application Box.	as filed, as indicated in	ers contain an amendment that goes beyond item 4 of Box No. I and the Supplemental				
b. (sent to the International Bureau only) a total	of (indicate time and					
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	e Administrative instruct	cions).				
4. This report contains indications relating to the following iter	ms:					
Box No. I Basis of the report						
Box No. II Priority						
Box No. III Non-establishment of opinion with reg	shment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention	Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations and explanations supporting such statement						
Box No. VI Certain documents cited						
☐ Box No. VII Certain defects in the international app						
Box No. VIII Certain observations on the international application						
Date of submission of the demand						
	Date of completion of	this report				
01. Jan 2005 (01.01) 2005)	12	. Oct. 2005 (12.10.2005)				
Name and mailing address of the IPEA/CN The State Intellectual Property Office Alex D.P. Cl.:	Authorized officer	(A)				
The State Intellectual Property Office, the P.R.China, 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China		Xu chi ;				
100088						
Facsimile No. 86-10-62019451	Telephone No. (86-1	0)62085562				
orm PCT/IPEA/409 (cover sheet) (April 2005)						

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN2004/000728

. With re	Basis of the report		
• •	gard to the language, this report is based on:		
\boxtimes	the international application in the language in which it	was filed	
	a translation of the international application into		thich is the law
	enslation furnished for the purposes of:	, v	hich is the language of a
	international search (Rules 12.3(a) and 23.1(b))		
	Jpublication of the international application (Rule 12.4	l(a))	
1	international preliminary examination (Rules 55.2(a)	and/or 55 3(a))	
	(una/or 55.5(a))	
	gard to the elements of the international application, the eceiving Office in response to an invitation under Article to this report):	is report is based on (replacement le 14 are referred to in this report	t sheets which have been furnished as "originally filed" and are not
⊠ th	e international application as originally filed/furnished		
☐ th	e description:		
1	pages		an amining 11 mt to the
1	ages •	received by this Authority on	as originally filed/furnished
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	claims:		
	ages *		as originally filed/furnished
	ages *	as amended (together wi	th any statement) under Article 19
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∟ a se	quence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence I	isting.
, I I Int	amendments have resulted in the cancellation of:		
· 1115			
	the description, pages		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CN2004/000728

Statement:			
Novelty (N)	Claims	1-8	YES
	Claims		NO NO
Inventive step (IS)	Claims	1-8	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-8	YES
	Claims		NO

Citations and explanations (Rule 70.7)

The following documents have been cited herein:

Document1: Yang Ruolin, et al., Journal of China Pharmaceutical University, 1999, Vol.30, No.2, p81-85

Document2: HOU Dian jie, et al., Chinese Journal of Medicinal Chemistry, 2002, Apr., Vol.12, No. 2, p103-104

Document3: CN1394603A

Documents 1-3 described puerarin derivatives, such as alkyl ester and ether of puerarin. However, the derivatives disclosed in the above documents are not included in general formula (I) set forth as claim 1 of this application. Moreover, D1-3 neither teach nor suggest the compounds of the claim 1 having alkylaminoalkoxyl substituents and the use thereof.

Thus, claim 1 is novel and not obvious from the description in those documents, meeting the criteria of novelty step set out in PCT Article 33(2) and inventive step set out in PCT Article 33(3).

In term of above, claims 2-8 meet the criteria of novelty set out in PCT Article 33(2) and inventive step set out in PCT Article 33(3).

Claims 1-8 meet the criteria of Industrial applicability set out in PCT Article 33(4).

